F-212

PTO/SB/01 (03-01)

Approved for use through 10/31/2002. OMB 6651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Att rney Docket Number

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)		First Named Inven	tor	RMPH		
			COMPLETE IF KNOWN			
		Application Number		/		
(5) 0) 17	,	Filing Date	1111	9/2001		
<u> </u>		Group Art Unit	`\+			
Supmitted Cit	Filing (surcharge (37 CFR 1.16 (e))	Group Art Offic				
	required)	Examiner Name				
As a below named inventor, I here	by declare that:			<u> </u>		
My residence, mailing address, and		below next to my name.				
thelieve tem the original first and s	cole inventor (if only one (name is listed below) or a	n original, first	and joint inventor	(if plural	
names are listed below) of the subje	ect matter which is claime	ed and for which a patent	is sought on th	e invention entite	<u>:a:</u>	
ANINTELVERTER			V1470-			
A MULTI-PRONG	ED DOMED	SPRING				
	(Title of the	Invention)				
the specification of which			•			
is attached hereto						
or r						
was filed on (MM/DD/YYYY)		as United State	es Application I	Number or PCT In	iternational	
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A - F - C - N - L - C		anded on MM/DDAXXX	^		(if applicable).	
Application Number	and was arr	nended on (MM/DD/YYY)	'L		(паррисавіе).	
I hereby state that I have reviewed	and understand the conf	ents of the above identifie	ed specification	, including the cla	ims, as	
amended by any amendment speci	fically referred to above.					
I acknowledge the duty to disclose in-part applications, material inform	information which is mate ation which became avai	erial to patentability as de liable between the filing d	fined in 37 CF ate of the prior	R 1.56, including frapplication and the	for continuation- ne national or	
PCT international filing date of the	continuation-in-part appli	cation.				
I hereby claim foreign priority bene or plant breeder's rights certificate	(s), or 365(a) of any PC	(a)-(d) or (r), or 365(b) of T international application	n which design the	nated at least on	e country other	
or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the						
application on which priority is clain Prior Foreign Application	1	Foreign Filing Date	Priority	Certified Co	py Attached?	
Number(s)	Country	(MM/DD/YYY)	Not Claimed	YES	NO NO	
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			\sqcup			
			L			
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:						

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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DECLARATION — Utility or Design Patent Application

			······································			
Direct all correspondence to: Customer Number or Bar Code Label OR Correspondence address below						
Name JOSEPH P. ERRICO	Name JOSEPH P. ERRICO					
Address 150 DOVGUS RD.						
city FAR HUS		State NJ	ZIP 07931			
Country US Tele	ophone 9173	735918	Fax 982341229			
I hereby declare that all statements made herein of my or are believed to be true; and further that these statement made are punishable by fine or imprisonment, or both, ur validity of the application or any patent issued thereon.						
NAME OF SOLE OR FIRST INVENTOR:	A petition h	as been filed for this un	signed inventor			
Given Name (first and middle [if.any])		Family Name RAL	PH			
Inventor's Signature	X	<u>/</u>	Date 119/2011			
Residence: City 864310E PALK	State NJ	country US	Citizenship US			
Mailing Address PO BOX 99						
city SEASIDE PARK	State N	J ZIP 18752	country US			
NAME OF SECOND INVENTOR:	A petition has	s been filed for this uns	igned inventor			
Given Name (first and middle [if any]) STEPHEN	Given Name STERHEN Family Name TATAR					
Inventor's Signature			Date (1/9/2001			
Residence: City MONTVALE	State NJ	Country US	Citizenship			
Mailing Address 45 UPPER MOUNTAIN RD.						
CHY MONTVALE	State NJ	ZIP 07645	Country U.S			
Additional inventors are being named on thesupplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.						

Please type a pl	us sign (+) inside	this box	-	

PTO/SB/02A (11-00)

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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page ___ of ___

Name of Additional Joint Inventor, if an	/ :			A petition has been	filed for th	his unsigned inventor
Given Name (first and middle [if any])	Given Name (first and middle [if any])			Family N	lame or S	urname
JOSEPH P.				ERR	100	
Inventor's Signature						Date 11 9 2001
Residence: City KIRKLAND	State	· WA	_ c	country US		Citizenship US
Mailing Address 4503 (62ND	<u>ر</u>	ME	, N	<u>E</u>		
Mailing Address						
on KIRKLAND	Stat	. WA		ZIP 980 33	Count	_{ry} US
Name of Additional Joint Inventor, if an	y:			A petition has been	filed for th	nis unsigned inventor
Given Name (first and middle [if any])			\perp	Family I	Name or S	Surname
inventor's Signature						Date
Residence: City	Sta	ite		Country		Citizenship
Mailing Address						
Mailing Address						
City	Sta	ate		ZIP	Cou	untry
Name of Additional Joint Inventor, if ar	ıy:			A petition has been f	led for thi	is unsigned inventor
Given Name (first and middle [if any])				Fan	nily Name	or Surname
inventor's Signature						Date
Residence: City	Stat	te		Country		Citizenship
Mailing Address						
Mailing Address				•		
City	Stat	te		ZIP		Country

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PTO/SB/81 (02-01)

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	
Filing Date	11/12/2003
First Named Inventor	Ralph;
Title An Intervertebral Space	r Device Having a Multi-Pronged Domed Spring
Group Art Unit	
Examiner Name	
Attorney Docket Number	F-296

l banaha anna da	4.		<u> </u>			
OR	ers at Customer Number r(s) named below:	36402	□ → [Place Customer Number Bar Code Label here		
	Name Registration Number					
	ey(s) or agent(s) to prosecute the					
	nited States Patent and Tradema			-		
Please change the correspondence address for the above-identified application to: X						
Firm or Individual Nam	ne					
Address						
Address						
City		s	tate	Zip		
Country						
Telephone		F	ax			
I am the: Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).						
SIGNATURE of Applicant or Assignee of Record						
Name J	oseph P. Errico, CEO,	SpineCore, In	ıc.			
Signature						
Dat 11/12/2003						
	he inventors or assignees of record of the gnature is required, see below*.	e entire interest or	their representativ	ve(s) are required. Submit multiple		
Total of1	forms are submitted.		"=			

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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STATEMEN	NT UNDER 37 CFR 3.73(b)
Applicant/Patent Owner: James D. Ralph;	Stephen Tatar; Joseph P. Errico
	Filed/Issue Date:11/12/2003
	er Device Having a Multi-Pronged Domed Spring
SpineCore, Inc, a	Delaware corporation
(Name of Assignee)	(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
atatas that it is	
states that it is: 1. the assignee of the entire right, title, and	interest: or
2. □ an assignee of less than the entire right,	·
The extent (by, percentage) of its owners	ship interest is%
in the patent application/patent identified above	e by virtue of either:
	e patent application/patent identified above. The assignment at and Trademark Office at Reel, Frame, or for
OR	
B. [x] A chain of title from the inventor(s), of the assignee as shown below:	e patent application/patent identified above, to the current
1. From:Inventors	To:To:
	United States Patent and Trademark Office at 0312 , or for which a copy thereof is attached.
2. From: SpineCore, LLC	To: Third Millennium Engineering, LLC
The document was recorded in the	United States Patent and Trademark Office at 0992 , or for which a copy thereof is attached.
3. From: Third Millennium Engineering	s, LLC To: SpineCore, Inc.
The document was recorded in the	United States Patent and Trademark Office at attached , or for which a copy thereof is attached.
[] Additional documents in the chain	of title are listed on a supplemental sheet.
	ssignment document or a true copy of the original document) accordance with 37 CFR Part 3, if the assignment is to be
The undersigned (whose title is supplied below)	is authorized to act on behalf of the assignee.
11/12/2003	Joseph P. Errico,
Date	Typed or printed name
	Signature
	CEO, SpineCore, Inc.
	Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

ASSIGNMENT AND ASSUMPTION AGREEMENT

This Assignment and Assumption Agreement (the "Agreement") is effective January 21, 2003 (the "Effective Date") and is among Third Millennium Engineering, LLC., a Delaware limited liability company of Summit, New Jersey ("Millennium"), Third Millennium Enterprises, LLC ("Enterprises") and SpineCore, Inc., a Delaware corporation of Summit New Jersey (the "Company").

Millennium or Enterprises owns or controls certain inventions which are embodied by or encompassed in certain issued patents and pending patent applications, as identified in attached Schedule (collectively, the "Inventions").

For good and sufficient consideration, Millennium and Enterprises hereby irrevocably sells and assigns to the Company, and the Company hereby assumes, Millennium's and Enterprises' entire right, title, and interest in the Inventions throughout the world, and in and to all applications for patent and patents for the Inventions, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof, and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the Effective Date set forth above.

Third Millennium Engineering, LLC	SpineCore, Inc.
By: Joseph P. Erriw, Esq. Title: Manager Date: 1/21/03	By: Joseph P. Erviw, Esq. Title: CEO Date: 1/21/03
Third Millennium Enterprises, LLC	
By: Joseph P. Evnia Esy	
Title: Manager	
Date: 1 21 03	

Schedule of Patents and Patent Applications

Title	Country	Particulars
Artificial Intervertebral Disc Having Limited Rotation Using a Captured Ball and Socket	USA	US Application Serial No. 10/256,160
Joint With a Solid Ball and Compression Locking Post		Filed 26-Sep-2002
Artificial Intervertebral Disc Having a Captured Ball and Socket Joint With a Solid Ball and Compression Locking Post	USA	US Application Serial No. 10/294,981 Filed 14-Nov-2002
Artificial Intervertebral Disc Having Limited Rotation Using a Captured Ball and Socket Joint With a Compression Locking Post and a Solid Ball Having a Protrusion	USA	US Application Serial No. 10/294,985 Filed 14-Nov-2002
Artificial Intervertebral Disc Having Limited Rotation Using a Captured Ball and Socket Joint with a Solid Ball, a Compression Locking Post and an Interference Pin	USA	US Application Serial No. 10/294,986 Filed 14-Nov-2002
Artificial Intervertebral Disc Having Limited Rotation Using a Captured Ball and Socket Joint with a Solid Ball, a Compression Locking Post and an Interference Ball Bearing	USA	US Application Serial No. 10/294,989 Filed 14-Nov-2002
Artificial Intervertebral Disc Having a Captured Ball and Socket Joint With a Solid Ball and Retaining Cap	USA	US Application Serial No. 10/294,983 Filed 14-Nov-2002
Artificial Intervertebral Disc Having Limited Rotation Using a Captured Ball and Socket Joint With a Solid Ball and Retaining Cap	USA	US Application Serial No. 10/294,982 Filed 14-Nov-2002

Title	Country	Particulars
Artificial Intervertebral Disc Having Limited Rotation Using a Captured Ball and Socket Joint With a Retaining Cap and a Solid Ball Having a	USA	US Application Serial No. 10/294,984 Filed14-Nov-2002
Protrusion Artificial Intervertebral Disc Having Limited Rotation Using a Captured Ball and Socket Joint with a Solid Ball, a Retaining Cap, and an Interference Pin	USA	US Application Serial No. 10/294,980 Filed 14-Nov-2002
Artificial Intervertebral Disc Having Limited Rotation Using a Captured Ball and Socket Joint with a Solid Ball, a Retaining Cap, and an Interference Ball Bearing	USA	US Application Serial No. 10/294,988 Filed 14-Nov-2002
Intervertebral Spacer Device	USA	United States Patent No. 5,989,291 Issued 23-Nov-1999
Intervertebral Spacer Device Having a Radially Thinning Belleville Spring	USA	US Application Serial No. 09/968,047 Filed 1-Oct-2001
Intervertebral Spacer Device Utilizing a Belleville Washer Having Radially Extending Grooves	USA	US Application Serial No. 09/968,046 Filed 1-Oct-2001
Intervertebral Spacer Device Having a Radially Thinning Slotted Belleville Spring	USA	US Application Serial No. 09/968,045 Filed 1-Oct-2001
Intervertebral Spacer Device Utilizing a Spirally Slotted Belleville Washer Having Radially Extending Grooves	USA	US Application Serial No. 09/970,479 Filed 4-Oct-2001

Title	Country	Particulars
Intervertebral Spacer Device Utilizing a Belleville Washer Having Radially Spaced	USA	US Application Serial No. 09/974,154
Concentric Grooves		Filed 11-Oct-2001
Intervertebral Spacer Device Utilizing a Spirally Slotted Belleville Washer Having	USA	US Application Serial No. 09/975,471
Radially Spaced Concentric Grooves		Filed 11-Oct-2001
Intervertebral Spacer Device Utilizing a Spirally Slotted Belleville Washer and a	USA	US Application Serial No. 10/040,801
Rotational Mounting		Filed 7-Jan-2002
Tension Bearing Artificial Disc Providing a Centroid of Motion Centrally Located Within an	USA	US Application Serial No. 10/151,280
Intervertebral Space		Filed 20-May-2002
Artificial Intervertebral Disc Utilizing a Ball Joint Coupling	USA	US Application Serial No. 10/175,417
		Filed 19-Jun-2002
Artificial Intervertebral Disc Having a Slotted Belleville Washer Force Restoring Element	PCT	PCT Application Serial No. PCT/US02/19660
		Filed 19-Jun-2002
Artificial Intervertebral Disc Having a Grooved Belleville Washer Force Restoring Element	PCT	PCT Application Serial No. PCT/US02/19654
		Filed 19-Jun-2002
Artificial Intervertebral Disc Having a Slotted Belleville Washer Force Restoring	USA	US Application Serial No. 10/177,013
Element		Filed 21-Jun-2002
Intervertebral Spacer Device Having Arch Shaped Spring Elements	USA	US Application Serial No. 09/982,148

Title	Country	Particulars
		Filed 18-Oct-2001
Intervertebral Spacer Device Having a Domed Arch Shaped	USA	US Application Serial No. 10/035,640
		Filed 9-Nov-2001
Intervertebral Spacer Device Having a Slotted Domed Arch Strip Spring	USA	US Application Serial No. 10/035,614
T-t	1	Filed 9-Nov-2001
Intervertebral Spacer Device Having a Slotted Partial Circular Domed Arch Strip	USA	US Application Serial No. 10/035,669
Spring		Filed 9-Nov-2001
Intervertebral Spacer Device Having a Multi-Pronged Domed Spring	USA	US Application Serial No. 10/035,668
		Filed 9-Nov-2001
Artificial Intervertebral Disc Having an Arched Spring Force Restoring Element	PCT	PCT Application Serial No. PCT/US02/19656
		Filed 19-Jun-2002
Intervertebral Spacer Device Having a Wave Washer Force	USA	US Patent No. 6,468,310
Restoring Element		Issued 22-Oct-2002
Intervertebral Spacer Device Having a Spiral Wave Washer Force Restoring Element	USA	US Application Serial No. 09/906,118 (Allowed Claims)
-		Filed 16-Jul-2001
Artificial Intervertebral Disc Having a Wave Washer Force Restoring Element	PCT	PCT Application Serial No. PCT/US02/19659
		Filed 19-Jun-2002
Artificial Intervertebral Disc Having a Wave Washer Force Restoring Element	USA	US Application Serial No. 10/177,377
		Filed 21-Jun-2002

Title	Country	Particulars
Intervertebral Spacer Device Having a Wave Washer Force Restoring Element	USA	US Application Serial No. 10/272,580
Artificial Intervertebral Disc Having a Spider Spring Force Restoring Element	PCT	Filed 16-Oct-2002 PCT Application Serial No. PCT/US02/19651
Artificial Intervertebral Disc Having a Spider Spring Force Restoring Element	USA	Filed 19-Jun-2002 US Application Serial No. 10/177,378
Intervertebral Spacer Having a Flexible Wire Mesh Vertebral Body Contact Element	USA	Filed 21-Jun-2002 US Application Serial No. 10/128,619 Filed 23-Apr-2002
Artificial Intervertebral Disc Having a Flexible Wire Mesh Vertebral Body Contact Element	USA	US Application Serial No. 10/140,153 Filed 7-May-2002
Artificial Intervertebral Disc Having a Deformable Wire Mesh Vertebral Body Contact Element	PCT	PCT Application Serial No. PCT/US02/19657 Filed 19-Jun-2002
Instrumentation and Methods For Use In Implanting an Artificial Disc	USA	US Application Serial No. 10/282,356
Method of Surgically Treating Scoliosis	USA	Filed 29-Oct-2002 US Patent No. 6,447,548 Issued 10-Sep-2002
Trial Intervertebral Distraction Spacers	USA	US Application Serial No. 09/906,119 Filed 16-Jul-2001

Title	Country	Particulars
Insertion Tool For Use With Trial Intervertebral Distraction	USA	US Patent No. 6,428,544
Spacers	1 7 7 7 1	Issued 6-Aug-2002
Insertion Tool For Use With Tapered Trial Intervertebral Distraction Spacers	USA	US Patent No. 6,478,801 Issued 12-Nov-2002
-		ISSUED 12-110V-2002
Porous Intervertebral Distraction Spacers	USA	US Patent No. 6,471,725
		Issued 29-Oct-2002
Surgical Method of Treating Scoliosis	USA	US Application Serial No. 09/906,124
		Filed 16-Jul-2001
Method of Distracting Vertebral Bones	USA	US Patent No. 6,436,102
		Issued 20-Aug-2002
Vertebral Bone Distraction Instruments	USA	US Application Serial No. 09/906,126
		Filed 16-Jul-2001
Instruments for Reorienting Vertebral Bones for the Treatment of Scoliosis	USA	US Application Serial No. 09/906,134
		Filed 16-Jul-2001
Insertion Tool For Use With Intervertebral Spacers	USA	US Application Serial No. 09/906,127
		Filed 16-Jul-2001
Insertion Tool For Use With Trial Intervertebral Distraction Spacers	USA	US Application Serial No. 10/115,751
		Filed 3-Apr-2002
Method of Distracting Vertebral Bones	USA	US Application Serial No.
A CIRCUIAL DOILES		10/222,332
		Filed 16-Aug-2002
Method of Surgically Treating Scoliosis	USA	US Application Serial No. 10/223,146
		Filed 19-Aug-2002

Title	Country	Particulars
Porous Intervertebral Distraction Spacers	USA	US Application Serial No. 10/223,148
Insertion Tool For Use With Tapered Trial Intervertebral Distraction Spacers	USA	Filed 4-Oct-2002 US Application Serial No. 10/223,147
Static Trials and Related Instruments and Methods for Use in Implanting an Artificial Intervertebral Disc	USA	Filed 19-Aug-2002 US Application Serial No. 10/309,585 Filed 4-Dec-2002
Femoral Ring Loader	USA	US Patent No. 6,440,142 Issued 27-Aug-2002
Distraction Instrument for use in Anterior Cervical Fixation Surgery	USA	US Application Serial No. 10/003,000 Filed 30-Nov-2001
Spacer Device and Insertion Instrument for use in Anterior Cervical Fixation Surgery	USA	US Application Serial No. 10/001,531 Filed 30-Nov-2001
Femoral Ring Loader	USA	US Application Serial No. 10/075,688 Filed 13-Feb-2002